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# NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

03/18/2004

Christopher J Reckamp Vedder Price Kaufman & Kammholz 222 North LaSalle Street Chicago, IL 60601 EXAMINER
PAN, DANIEL H

ART UNIT PAPER NUMBER

2183

DATE MAILED: 03/18/2004

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/471,877	12/23/1999	ADRIAN SFARTI	0100.9910145	8063

TITLE OF INVENTION: METHOD OF INTEGRATING A PERSONAL COMPUTING SYSTEM AND APPARATUS THEREOF

APPLN. TYPE	SMALL ENTITY	issue fee	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	06/18/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

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- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
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7:	590 03/18/2004		EXAM	NER	
Christopher J Reckamp			PAN, DA	PAN, DANIEL H	
Vedder Price Kauft 222 North LaSalle			ART UNIT	PAPER NUMBER	
Chicago, IL 60601			2183		
			DATE MAILED: 03/18/2004		

# Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)			
	09/471,877	SFARTI ET AL.			
Notice of Allowability	Examiner	Art Unit			
	pan	2183			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to 7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	he header according to 37 CFR 1.121( sit of BIOLOGICAL MATERIAL n	d). nust be submitted. Note the			
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 08), 7. ☐ Examiner's Amenda	e			

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## Reasons for Allowance

Upon further review and consideration, none of the prior art of record teaches:

a) the combined features of the direct connection of the central processing unit to the north gate on a single substrate, the access requests from the central processing unit to the north gate at the rate of the central processing unit, and the processing of the memory access requests at the rate of memory by the north gate (claims 1,28);
b) the combined features of the retrieval of the memory request from the memory request buffer at the memory rate, the north bridge interfaced with the memory at memory rate, the memory bus, the north gate and memory on the same substrate (claim 14);

c) the combined features of the issuing the memory request of the phase locked loop when instruction information is not in the data module or the instruction module, the receiving of the memory request form central processing unit at central processing rate, the retrieval of the memory access request from the memory request buffer at memory rate (claim 7,20).

### Prior art of record

a) Wandler et al. (5,991,833) disclosed a system including the north bridge [50] which may be integrated with a CPU (e.g. see col.6, lines 1-8). However, it did not show the

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at the rate of memory by the north gate.

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combined features of the access requests from the central processing unit to the north gate at the rate of the central processing unit and the processing of the memory access requests at the rate of memory by the north gate as claimed.

b) Connor et al. (4,152,764) was cited for the teaching of the processing of the request not to exceed the memory speed (e.g. see col.2, lines 13-27, col.5, lines 60-67).

However, Connor was directed to the sum of lower rates of the processors not to exceed the maximum storage rate. Connor did not show the memory request by the north bridge at the memory rate, nor the combined features of the combined features of the direct connection of the central processing unit to the north gate on a single substrate, the access requests from the central processing unit to the north gate at the

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dan Pan whose telephone number is 703 305 9696.

The examiner can normally be reached on M-F from 8:30 AM to 4:00 PM.

rate of the central processing unit, and the processing of the memory access requests

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chan, can be reached on 703 305 9712. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

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